728th Air Control Squadron

CONTROL & REPORTING CENTER (CRC)

“DEMON” CONTROL

1LT Charles “Lucky” Hudson, 728 ACS

20 Nov 03

Overview

- CRC Mission
- CRC BASICS
  - Core Competencies
  - Primary Equipment
- 728 ACS
  - Past
  - Present
  - Future

Our Mission and Vision

- ***OUR MISSION***
  - *Provide a combat ready, worldwide deployable, control and reporting center (CRC) for contingency operations*

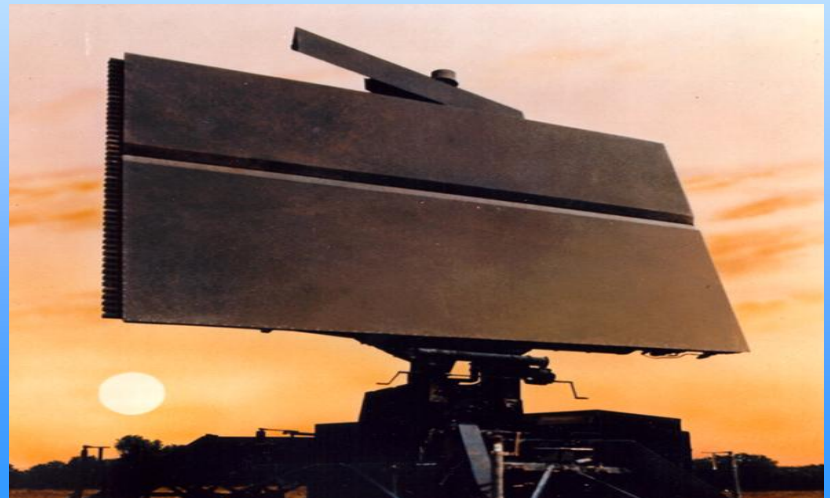
- ***OUR VISION***
  - *Senior C2 Agency*
  - *Pass RAP to higher HQ*
  - *Forward taskings*
  - *Relay BDA*

CRC Basics

- **Provide command, control, communications, and intelligence capabilities in support of military operations**
  - **Theater Battle Management (TBM) Core Competencies**
    - **Theater Air Defense, Data Link Management, Surveillance, Identification, Air Battle Execution**
- **Worldwide deployable, mobile and self-contained**
  - **IDMT, Security Forces, Disaster Prep, Services, and AGE**
  - **Internal vehicle maintenance**
- **We are a weapons system**

TBM Core Competencies

- Theater Air Defense -- OCA, DCA, SEAD, AAR, TMD, ADA, (Support TST/TCT)
- Data Link Management -- TADIL A, B, C, J, NATO Link 1, ATDL-1 (SIAP / CTP / COP)
- Surveillance -- detection, tracking, and reporting
- Identification -- friend or foe with SIS/VPN integration
- Air Battle Execution -- via voice/data link comm to aircraft and resources conducting air operations



PRIMARY EQUIPMENT

AN/TPS-75 Radar Set

- Slotted Wave Guide, Stacked Beam
- Rotates 6.5 RPM
- Freq: 2900-3100 MHz
- Range: 1-240 NM
- Alt: 95,000 Ft
- Range Res: 3400 Ft
- Az Res: 3º
- IFF/SIF: 1,2,3A, 4, C
- Fixed Freq, Freq Agility, MTI
- Excellent Wx, ECCM Capabilities

Primary Equipment

AN/TYQ-23(V)3 Operations Module

- 4 OCUs
- 4 UHFs
- 3 VHFs
- 2 HFs
- (Clear, Crypto, HQ)
- TADIL A, B, C, J,
  Nato Link 1,
  ATDL 1
- 3 Secure Phones
- 1 Clear Phone

-Up to 5 linked together

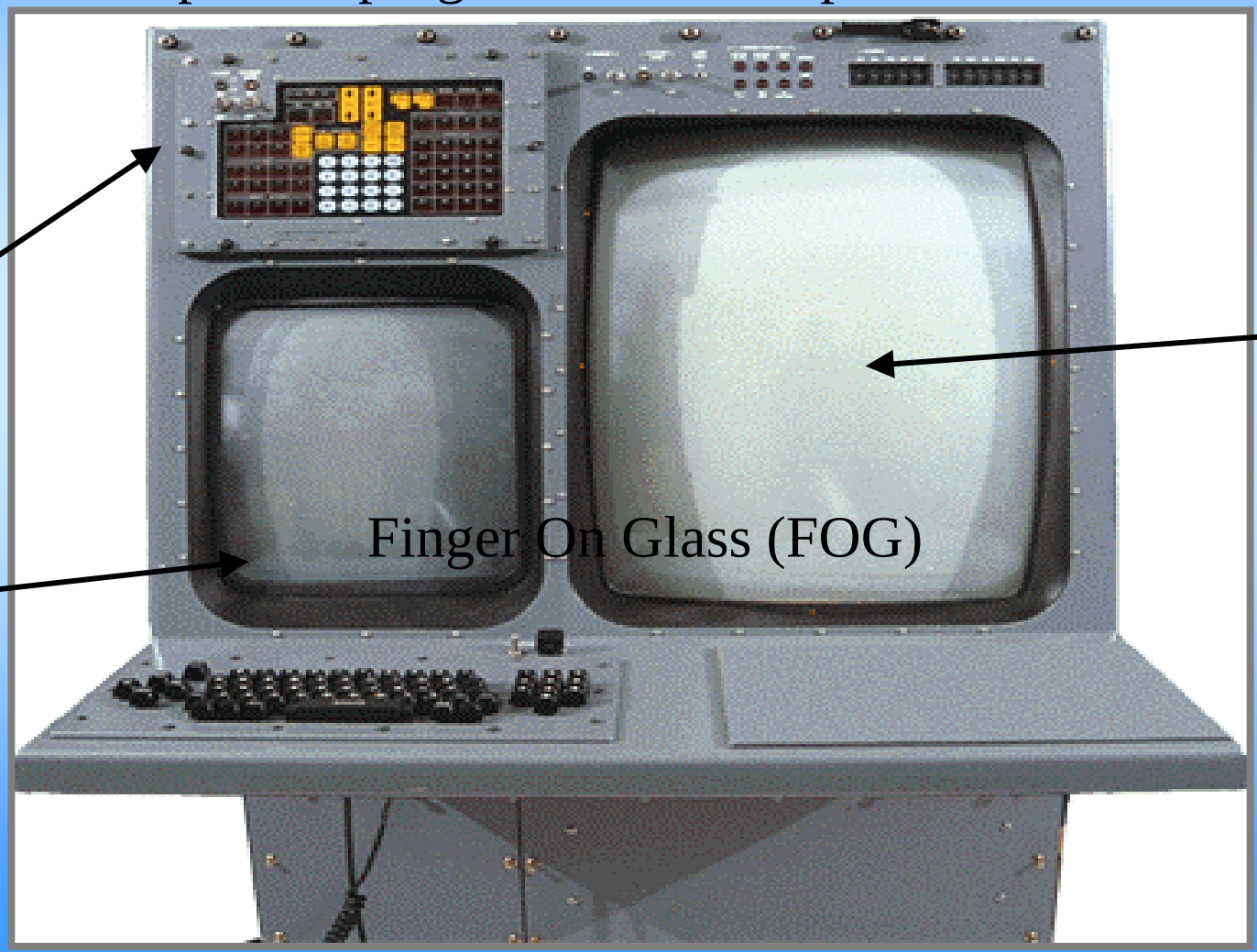
Inside View from Door

Roadside

Curbside

Operator Console Unit (OCU)

Operator programmable for specific functions



Primary Equipment

Tri-Tac Communications

AN/TSC-100A GMF Satellite Terminal

- -Nodal, Non-Nodal
- -8 Baseband groups, 60 local subscribers
- -2 antennas: 20 Ft and 8 Ft
- - Dual satellite operation

AN/TRC-170 Troposcatter Radio Terminal

- -Line of sight
- -100nm range
- -60 full duplex digital subscribers
- -Secure digital orderwire

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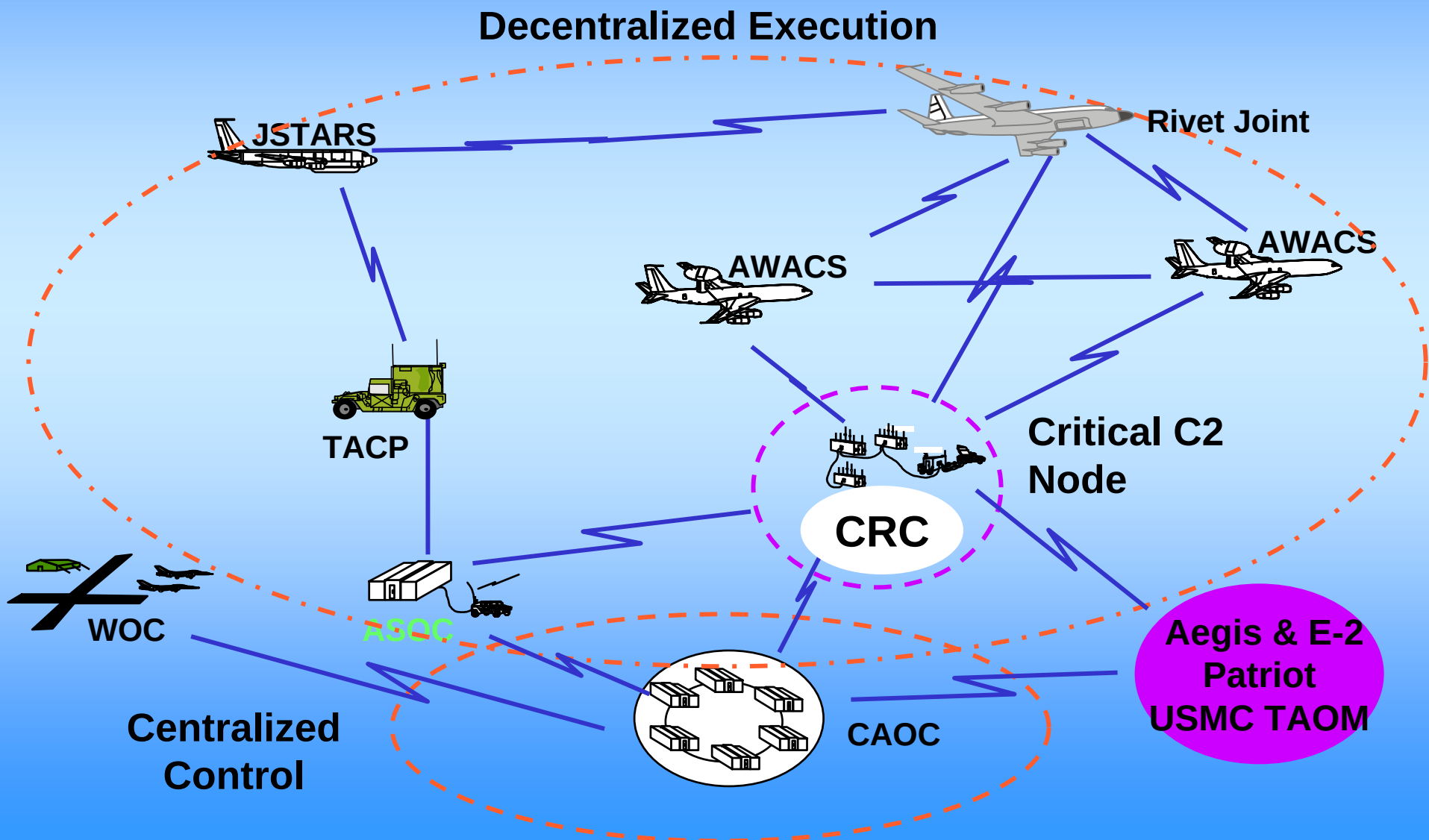
Theater Air Control System

JCS Pub 3-56.1



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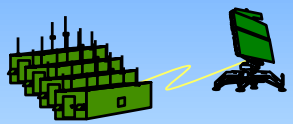
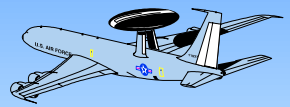
CRC Missions Amongst ACS Assets



CRC

Battle Mgmt
Surveillance
Support to DCA
Theater Air Defense
Air Refueling
HVAA Protection
Marshaling/Recovery
Airspace Control
Support to CSAR
Special Ops Support
Data Link Forwarding
Support to CAS

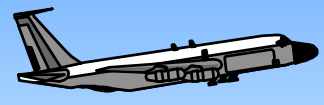


AWACS

Battle Mgmt
Surveillance
OCA and DCA
AI and CAS
Strategic Attack
CSAR AMC
Air Refueling
HVAA Protection
Theater Air Defense
Marshaling/Recovery
Airspace Control
Countersea
Special Ops Support

Joint STARS

Battle Mgmt
Surveillance
Reconnaissance
Attack Operations
AI and CAS
Intelligence
Support to CSAR



Rivet Joint

Intelligence
Collection
Dissemination
Identification
Target Amplification
Surveillance
Indications/Warning
Reconnaissance
Target Development
Threat Warning

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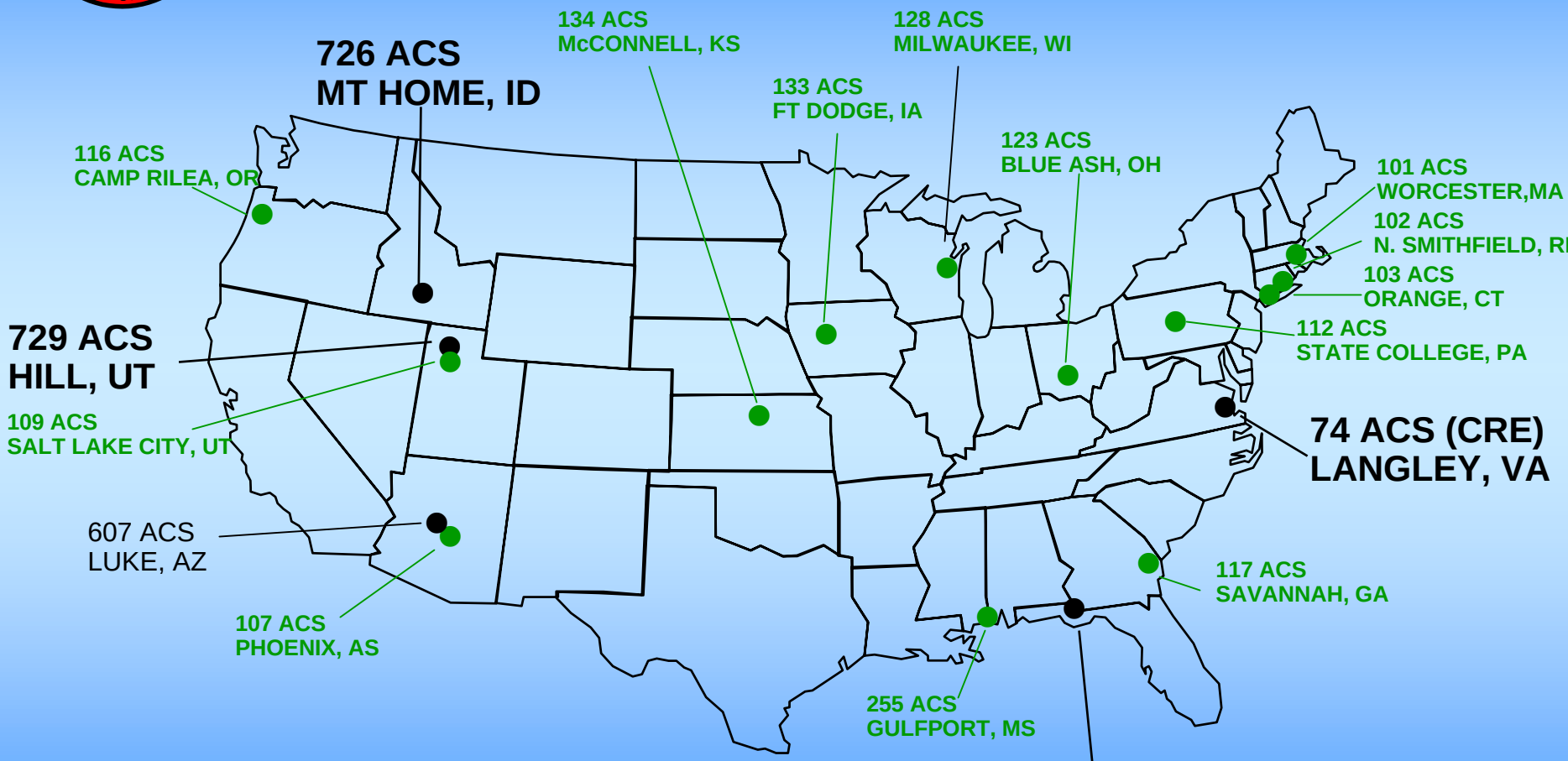
Beddown of ACS Assets



Active

Air National Guard

Air Control Squadron

- **Personnel**
  - 12 officers (3 diff AFSCs)
  - 356 enlisted (23 diff AFSCs)
  - 3 AFETS civilians
- **Major Pieces of Equipment**
  - 4 TYQ-23 V3 MCE Operations Modules
    - HF, VHF, UHF Data and Voice Communications
  - 2 AN/TPS-75 Three Dimensional Radars
  - 1 AN/TSC-100A/94A Satellite Communications Terminal
  - 20 TRC-170 Digital Troposcatter Radio Terminals
  - 22 MEP 806 Tactical Quiet Generators
  - 200+ M-Series Vehicle Fleet

Major Taskings

OPERATION	LOCATION	DATE
• SOUTHERN WATCH	KUWAIT, S.W. ASIA	Yearly
• NOBEL EAGLE	Crawford, TX Cape Canaveral, FL Air Defense Sectors FAA Facilities	9/11 - Present
• IRAQI FREEDOM	Baghdad, Iraq	Present

SWA ACS Mission

- Support the Enforcement of the UN Sanctioned No-Fly Zone over S Iraq
- Provide JTF-SWA CC the OSW Air Picture
- Integrate and Disseminate the OSW Air Picture
- Core Competencies
  - Radar Surveillance -- Kuwait, Saudi & S Iraq
  - ID of Air Tracks (coord with CAOC)
  - Battle Management/Weapons Control
    - US and Coalition aircraft
  - Maintain Theater Datalink Connectivity

Employment

- Battle Management/Weapons Control
  - Force Accountability Reporting
    - Marshaling / Recovery
  - Pre/Post Strike Refueling
  - Dynamic Re-Targeting of Time Critical Targets
  - BDA Reporting
  - Relay orders from higher HQ via secure comms
    - SATCOM, Landline or mIRC
  - Search and Rescue
  - Close Air Support
  - HVAA Protection
  - 24 / 7 Operation

Mar-Nov 03 – Current Action

- Mobilized 1.2 million pounds of equipment for OIF
- 121 tractor trailer loads from Eglin AFB to Port of Savannah
  - Largest truck movement in AFMC history
- Equipment sea lifted to Kuwait – 26 days
- 286 troops flown into Kuwait to configure convoy
- 480 mile convoy to Baghdad under USA escort
- Established CRC at Baghdad AB
  - Initially built both the tactical and cantonment sites then life support transitioned into MOB
- Directing multi-site operations

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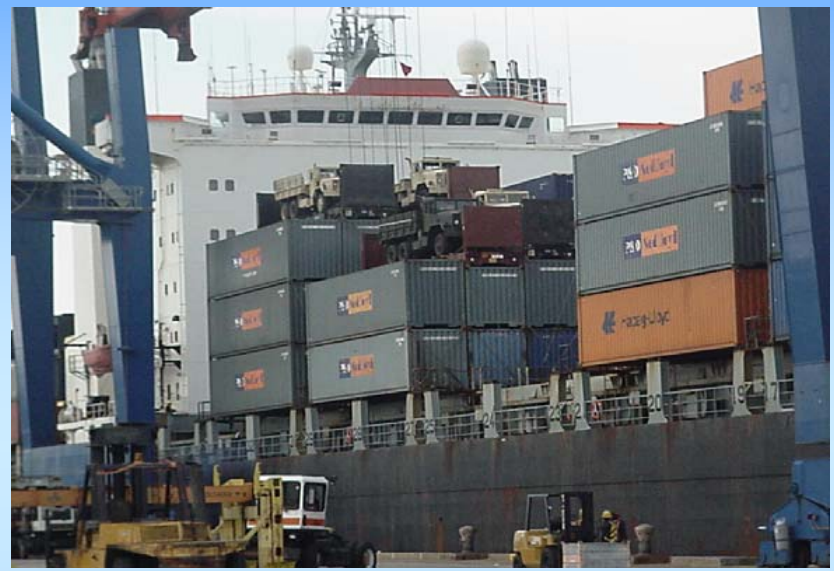
Mar-Nov 03, Current Action



CY04 Future Milestones

- Reconstitution after OIF
  - UTC equipment and personnel
- Enhance personnel training and conduct re-qualifications
- Integrating lessons learned into CONEMP
- ACS units realignment under 8AF and the 552 ACW

Mortar Attack on CRC

Equip at port for uploading

SUMMARY

- Provide command, control, communications, and intelligence capabilities in support of military operations worldwide
- Directing multi-site operations
- Theater Battle Management (TBM) Core Competencies
  - Theater Air Defense, Data Link Management, Surveillance, Identification, Air Battle Execution
- 24 / 7 Operation

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Questions?